

# **APPARATUS AND METHOD FOR DETECTING OPTICAL DISC TYPE AND/OR ADJUSTING TRACK BALANCE**

## **ABSTRACT OF THE DISCLOSURE**

5            Provided are an apparatus and method for detecting a type of an optical disc  
inserted into an optical disc system and/or adjusting a track balance in the optical disc  
system by detecting voltages of a focus error signal and a tracking error signal. For  
detecting a type of an optical disc inserted into an optical disc system, the apparatus  
comprising: an analog-to-digital converter that converts a focus error signal into n-bit  
10       voltage data; and a duty measurer that compares the n-bit voltage data with a positive  
noise voltage level and a negative noise voltage level, upcounts by a predetermined  
value if the n-bit voltage data is higher than the positive noise voltage level or lower than  
the negative voltage level, and outputs the upcounted result as a duty of the focus error  
signal.